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### 1 [Effects of routing computations in content-based routing networks with mobile data sources](#)



Vinod Muthusamy, Milenko Petrovic, Hans-Arno Jacobsen

August 2005 MobiCom '05: Proceedings of the 11th annual international conference on Mobile computing and networking

**Publisher:** ACM

Full text available: [pdf\(381.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper presents the first quantitative evaluation of the role of routing computations on performance when mobility is introduced to a content-based routing network. Additionally, the paper identifies the factors that affect the performance of a distributed ...


**Keyw ords:** mobility, multicast, publish/subscribe, routing

## 2 Modeling and Optimization for the Design of IMS Networks

Nisha Rajagopal, Michael Devetsikiotis

April ANSS '06: Proceedings of the 39th annual Symposium on Simulation  
2006

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(511.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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The IP Multimedia Subsystem (IMS) is envisioned as the solution for the next generation multimedia rich communication. Based on an open IP infrastructure, it enables convergence of data, speech, video and mobile network technology. The Session Initiation ...

## 3 An algebraic approach to practical and scalable overlay network monitoring



Yan Chen, David Bindel, Hanhee Song, Randy H. Katz

August SIGCOMM '04: Proceedings of the 2004 conference on Applications,  
2004 technologies, architectures, and protocols for computer communications

**Publisher:** ACM

Full text available:  [pdf\(461.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with  $n$  end hosts, existing systems either require  $O(n^2)$  ...


Keyw ords: dynamics, load balancing, network measurement and monitoring, numerical linear algebra, overlay, scalability

## 4 Toward best maintenance practices in communications network management

Faouzi Kamoun

September International Journal of Network Management, Volume 15 Issue 5  
2005

**Publisher:** John Wiley & Sons, Inc.

Full text available:  [pdf\(132.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),  
[review](#)


Best maintenance practices in communications networks management are benchmarking standards that, if carefully implemented, will enhance the integrity, reliability and maintenance costs of communications networks. This paper defines best maintenance ...

5 [Analysis of source policy and its effects on TCP in rate-controlled ATM networks](#)

Lampros Kalampoukas, Anujan Varma

October 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 5

**Publisher:** IEEE Press

Full text available:  [pdf\(380.91 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keyw ords: TCP over ATM, available bit rate (ABR) service, rate control

6 [Getting proactive network management from reactive network management tools](#)

Timothy Chiu

February 1998 International Journal of Network Management, Volume 8 Issue 1

**Publisher:** John Wiley & Sons, Inc.

Full text available:  [pdf\(145.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Typical network management tools fail to prevent network outages and downtime. Network managers can set up proactive network management with existing tools, using SNMP automatic actions, triggered by thresholds. © 1998 John Wiley & Sons, Ltd.


7 [Network intrusion detection through Adaptive Sub-Eigenspace Modeling in multiagent systems](#)



Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, Liwu Chang

September 2007 ACM Transactions on Autonomous and Adaptive Systems (TAAS), Volume 2 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, network security has become an extremely vital issue that beckons the development of accurate and efficient solutions capable of effectively defending our network systems and the valuable information journeying through them. In this article, ...

Keyw ords: Agent communications, adaptive sub-eigenspace modeling (ASEM), agent-based distributed system, intrusion detection, network security

**8** Investigating wired and wireless networks using a java-based programmable




sniffer

Michael J. Jipping, Andrew Kalafut, Nathan Kooistra, Kathleen Ludewig

June 2004 I TiCSE '04: Proceedings of the 9th annual SIGCSE conference on Innovation and technology in computer science education

**Publisher:** ACM

Full text available:  [pdf\(248.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Teaching students about networking requires laboratory investigation into network data. Such investigation requires examination of both wired and wireless network data. Most available network traffic sniffers are either too expensive or too cryptic to ...

Keywords: java, network concepts, network sniffer, pedagogy

**9** The network control assistant (NCA), a real-time prototype expert system for



network management

Perry M. Kosieniak, Victor Mathis, Michael St. Jacques, Delano Stevens

June 1988 IEA/ AIE '88: Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1, Volume 1

**Publisher:** ACM

Full text available:  [pdf\(846.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Prototype network management software supported by a real-time expert system to monitor and control the public telephone voice network is described. This system, called the Network Control Assistant (NCA), was mostly written in Prolog on an IBM PC/AT. ...

**10** Design and analysis of large-scale wireless communications networks



Kenneth Y. Jo, Syed R. Ali

October 2006 PM2HW2N '06: Proceedings of the ACM international workshop on Performance monitoring, measurement, and evaluation of heterogeneous wireless and wired networks

**Publisher:** ACM

Full text available:  [pdf\(501.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents fundamental design and performance assessment methodologies for modern large-scale enterprise wireless communications networks comprised of many system components. Large-scale wireless networks are needed to serve mobile users in ...

Keyw ords: mobile ad-hoc networks, wireless networks


## 11 Tracking a moving object with a binary sensor network



Javed Aslam, Zack Butler, Florin Constantin, Valentino Crespi, George Cybenko, Daniela Rus

November 2003 SenSys '03: Proceedings of the 1st international conference on Embedded networked sensor systems

**Publisher:** ACM

Full text available:  [pdf\(442.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper we examine the role of very simple and noisy sensors for the tracking problem. We propose a binary sensor model, where each sensor's value is converted reliably to one bit of information only: whether the object is moving toward the sensor ...

Keyw ords: minimalism, particle filters, sensor networks, tracking


## 12 An operating system architecture for network processors



Steve Muir, Jonathan Smith

October 2005 ANCS '05: Proceedings of the 2005 ACM symposium on Architecture for networking and communications systems

**Publisher:** ACM

Full text available:  [pdf\(224.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Network devices have become significantly more complex in recent years, with the most sophisticated current devices incorporating one or more general-purpose CPUs as part of their hardware. The need for such processing capability is motivated by the ...


Keyw ords: network processors, operating systems

**13** A simulation study of traffic conditioner performance

Tinus Strauss, Derrick G. Kourie, Martin S. Olivier

July 2005 SAI CSIT '05: Proceedings of the 2005 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries

**Publisher:** South African Institute for Computer Scientists and Information Technologists

Full text available:  pdf(357.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article reports on the results of a simulation study to investigate the relative performance of five Differentiated Services traffic conditioners in a range of situation created by varying traffic patterns and subscription levels in a fixed topology ...


**Keyw ords:** differentiated services, simulation, traffic conditioners

**14** Hierarchy schedule-sensing protocol for CDMA wireless data-centric networks with multiple packet collision and capture effect

Hsiao-Hwa Chen, Wee-Teck Tea

December 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 6

**Publisher:** IEEE Press

Full text available:  pdf(905.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper focuses on performance analysis of a CDMA wireless data network based on hierarchy schedule-sensing (HSS) protocol, in which a common-code permission frame beacon is used to schedule request transmissions to avoid packet collisions. To further ...

**Keyw ords:** CDMA, capture effect, medium-access control, wireless network

**15** Prioritized resource allocation for stressed networks

Cory C. Beard, Victor S. Frost

October 2001 IEEE/ ACM Transactions on Networking (TON), Volume 9 Issue 5

**Publisher:** IEEE Press

Full text available:  pdf(253.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Overloads that occur during times of network stress result in blocked access to all users, independent of importance. These overloads can occur because of degraded resource availability or abnormally high demand. Public broadband networks must dynamically ...


**Keyw ords:** Computer network performance, resource management

**16** End-to-end delay analysis of videoconferencing over packet-switched networks

Mario Baldi, Yoram Ofek

August IEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 4  
2000

**Publisher:** IEEE Press

Full text available:  pdf(266.78 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: MPEG, end-to-end delay, performance guarantees, quality of service, time-driven priority, videoconference

**17** Reconfiguration of carrier assignment in cellular networks

Angelos N. Rouskas, Michael G. Kazantzakis, Miltiades E. Anagnostou

December Wireless Networks, Volume 5 Issue 6  
1999

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(241.51 KB)


Additional Information: [full citation](#), [references](#), [index terms](#)

**18** Virtually Pipelined Network Memory

Banit Agrawal, Timothy Sherwood

December MICRO 39: Proceedings of the 39th Annual IEEE/ ACM International  
2006 Symposium on Microarchitecture

**Publisher:** IEEE Computer Society

Full text available:  pdf(256.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce virtually-pipelined memory, an architectural technique that efficiently supports high-bandwidth, uniform latency memory accesses, and high-confidence throughput even under adversarial conditions. We apply this technique to the network processing ...

**19** [A recursive random search algorithm for large-scale network parameter](#)




[configuration](#)

Tao Ye, Shivkumar Kalyanaraman

June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(529.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Parameter configuration is a common procedure used in large-scale network protocols to support multiple operational goals. It can be formulated as a black-box optimization problem and solved with an efficient search algorithm. This paper proposes a new ...

**Keyw ords:** black-box optimization, global optimization, network management, random sampling

**20** [Routing algorithms for delay-insensitive and delay-sensitive applications in](#)



[underwater sensor networks](#)

Dario Pompili, Tommaso Melodia, Ian F. Akyildiz

September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

**Publisher:** ACM

Full text available:  [pdf\(492.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Underwater sensor networks consist of sensors and vehicles deployed to perform collaborative monitoring tasks over a given region. Underwater sensor networks will find applications in oceano-graphic data collection, pollution monitoring, offshore exploration, ...

**Keyw ords:** routing algorithms, underwater sensor networks

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Results 1 - 20 of 3,573 Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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